



**Environmental Monitoring and Reporting  
Canning River Estuary ~ Weekly profile**

**by  
Water Science Branch, Department of Water**

Date: Tuesday 31<sup>st</sup> January 2017

Canning Estuary run: SCB2 (08:47) upstream to CASMID (10:37) on the Trekker. Crew of Rebecca Firth and Nathan Phelps. The YSI 6600 V2 #1 was used and there were no problems with the equipment.

Lower Canning run: ELL (08:44) downstream to KEN (10:31) on the Kepa. Crew of Andrew Sayce and Rainer Kellen. The YSI 6600 V2 #3 was used and there were no problems with the equipment.

Weather & tide conditions: Conditions were fine with up to 100% cloud cover and a south easterly breeze of up to 8 knots. The tide was flowing for the duration of the sampling period. Perth recorded 45 mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Additional samples: No additional samples were taken.

Oxygenation: The Nicholson Road and Bacon Street oxygenation plants were operational the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline to hypersaline, with the exception of brackish surface water at RIV and fresh surface water at CADMID. Water was well oxygenated to oxygenated, with the exception of hypoxic to near anoxic bottom water at RIV and CASMID. Water temperature ranged from 21.7 and 29.6 ° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout all sites. Surface water was low in oxygen at ELL, KS9 to GRE and at BACD500, hypoxic at PAC and oxygenated at all other sites. Bottom water was hypoxic at ELL to KS9 and KENU300, low in oxygen at NIC, NICD200 and GRE and oxygenated at all other sites. Water temperature ranged from 21.7 to 23.7 ° C.

**Definitions:**

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L  
oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L,  
hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

# Canning River Estuary - Physical-chemical Profile - 31 January 2017

